

#### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

26311

7590

08/21/2002

NASA GLENN RESEARCH CENTER 21000 BROOKPARK ROAD OFFICE OF CHIEF COUNSEL; MAIL STOP 500-118 CLEVELAND, OH 44135 EXAMINER
HITESHEW, FELISA CARLA
ART UNIT CLASS-SUBCLASS

117-089000

1765
DATE MAILED: 08/21/2002

| • |                 |             |                      |                     |                  | 70 |
|---|-----------------|-------------|----------------------|---------------------|------------------|----|
| ١ | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | 19 |
| ٠ | 09/965,250      | 09/25/2001  | J. Anthony Powell    | LEW 17,186-1        | 3927             |    |

TITLE OF INVENTION: METHOD FOR GROWING LOW-DEFECT SINGLE CRYSTAL HETEROEPITAXIAL FILMS

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO           | \$1280    | \$0             | \$1280           | 11/21/2002 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

**Commissioner for Patents** Washington, D.C. 20231

(703)746-4000 <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the
United States Postal Service with sufficient postage for first class mail in an
envelope addressed to the Box Issue Fee address above, or being facsimile
transmitted to the USPTO, on the date indicated below.

|                    | <br> |  |
|--------------------|------|--|
| (Depositor's name) |      |  |
| (Signature)        |      |  |
| (Date)             |      |  |
|                    | <br> |  |

| 1 | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| nonprovisional NO  |                                    | \$1280            | \$0   | \$1280           | 11/21/2002 |
| EXAMINER   |                                    | ART UNIT          | CLASS-SUBCLASS  |                  |            |
| HITESHEW, FELISA CARLA 1765  |                                    | 1765              | 117-089000  |                  |            |
| 1. Change of correspondent CFR 1.363).   | ce address or indication of        | 'Fee Address" (37 | 2. For printing on the patent fro<br>the names of up to 3 registered  | patent attorneys |            |
| ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. |                                    |                   | or agents OR, alternatively, (2) single firm (having as a meml  | per a registered |            |
|  |                                    |                   | attorney or agent) and the nan<br>registered patent attorneys or age<br>is listed, no name will be printed. |                  |            |

### 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

| Please check the appropriate assignee category or c  4a. The following fee(s) are enclosed:  | 4b. Payment of Fee(s):  | individual             | corporation or other priva                                 | ate group entity                  | □ government   |  |
|--|---|------------------------|--|-----------------------------------|----------------|--|
| 4a. The following fee(s) are enclosed.   | _ * ` ` ` `   | . 64 6 ()              |  |                                   |                |  |
| ☐ Issue Fee  | ☐ A check in the amour  | it of the fee(s) is en | closed.  |                                   |                |  |
| ☐ Publication Fee  | ☐ Payment by credit ca  | rd. Form PTO-2038      | is attached.   |                                   |                |  |
| ☐ Advance Order - # of Copies  | The Commissioner is Deposit Account Numb  | hereby authorized er   | by charge the required fee(s)<br>(enclose an extra copy of | ), or credit any o<br>this form). | verpayment, to |  |
| Commissioner for Patents is requested to apply the   | Issue Fee and Publication Fee (if any) or to r  | e-apply any previo     | usly paid issue fee to the app                             | lication identifie                | ed above.      |  |
| (Authorized Signature)   | (Date)  |                        |  | -                                 | <u> </u>       |  |
| NOTE; The Issue Fee and Publication Fee (if r<br>other than the applicant; a registered attorney of<br>interest as shown by the records of the United Sta  | or agent; or the assignee or other party in tes Patent and Trademark Office.  |                        |  |                                   |                |  |
| This collection of information is required by 37 obtain or retain a benefit by the public which is application. Confidentiality is governed by 35 U. estimated to take 12 minutes to complete, includ completed application form to the USPTO. Tin case. Any comments on the amount of time suggestions for reducing this burden, should be Patent and Trademark Office, U.S. Department of NOT SEND FEES OR COMPLETED FOR Commissioner for Patents, Washington, DC 2023 | ing gathering, preparing, and submitting the ewill vary depending upon the individual you require to complete this form and/or sent to the Chief Information Officer, U.S. of Commerce, Washington, D.C. 20231. DO.MS TO THIS ADDRESS. SEND TO: |                        |  |                                   |                |  |
| Under the Paperwork Reduction Act of 1995, collection of information unless it displays a valid  | no persons are required to respond to a l OMB control number.   |                        |  |                                   |                |  |



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| 09/965,250                   | 09/25/2001                          | J. Anthony Powell      | LEW 17,186-1            | 3927<br>R        |  |
| 26311                        | 7590 08/21/2002                     |                        | EXAMIN                  | IER              |  |
|                              | RESEARCH CENTER                     | HITESHEW, FELISA CARLA |                         |                  |  |
| 21000 BROOKP<br>OFFICE OF CH | 'ARK ROAD<br>IEF COUNSEL; MAIL STOI | ART UNIT PAPER NUMBER  |                         |                  |  |
| CLEVELAND, (                 |                                     |                        | 1765                    |                  |  |
|                              |                                     |                        | DATE MAILED: 08/21/2002 |                  |  |

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



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| 26311           | 7590     | 08/21/2002           |                      | EXAMINER                |                  |  |
|                 | N RESEA  | RCH CENTER           |                      | HITESHEW, FELISA CARLA  |                  |  |
| 21000 BROOK     |          | AD<br>NSEL; MAIL STO | OP 500-118           | ART UNIT                | PAPER NUMBER     |  |
| CLEVELAND       | OH 44135 |                      | 51 300-110           | 1765                    |                  |  |
| UNITED STAT     | ΓES      |                      |                      | DATE MAILED: 08/21/2002 |                  |  |

## Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: <a href="http://www.uspto.gov/main/howtofees.htm">http://www.uspto.gov/main/howtofees.htm</a>.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

# Application No. Applicant(s) Powell, et al Notice of Allowability -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due cours THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. [ This communication is responsive to the application filed on 09/25/2001 2. 1 The allowed claim(s) is/are, /-52 3. The drawings filed on \_\_\_\_\_ are acceptable as formal drawings. 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). b) Some\* c) None 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: 5. Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e). Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE 6. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED. 7. Applicant MUST submit NEW FORMAL DRAWINGS (a) including changes required by the Notice of Draftsperson's Patent Drawing Review( PTO-948) attached 1) hereto or 2) to Paper No. \_\_\_\_. (b) including changes required by the proposed drawing correction filed \_\_\_\_\_, which has been approved by the examiner. (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson. 8. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Any reply to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE / SERIAL NUMBER). I applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included. Attachment(s) 1 Notice of References Cited (PTO-892) 2 Notice of Informal Patent Application (PTO-152) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 4 Interview Summary (PTO-413), Paper No.\_\_\_\_. 5☑ Information Disclosure Statements (PTO-1449), Paper No. 3 7 Examiner's Comment Regarding Requirement for Deposit 8 Examiner's Statement of Reasons for Allowance

FELISA HITESHEW PRIMARY EXAMINER

A211765

of Biological Material

9 Other

Application/Control Number: 09965,250

Art Unit: 1765

Allowable Subject Matter

1. Claims 1-52 are allowed.

2. The following is an examiner's statement of reasons for allowance: The most relevant prior

art of record was that which was submitted by the applicants. However, it does not teach nor

fairly suggest singularly or in any combination thereof the instant invention.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Felisa Hiteshew whose telephone number is (703) 308-2545. The examiner

can normally be reached on Mondays through Thursdays from 5:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Benjamin Utech, can be reached on (703) 308-3836. The fax phone number for the organization

where this application or proceeding is assigned is (703) 305-3599.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

FELISA HITESHEW

AU 1768

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